Let's assume a channel with three cells and two class of sediment

V = [0.5 ,1,-1] meter per second

d = [0.001, 0.000125] very coarse sand and fine sand =>

settling velocity = [0.15497120869127, 0.00107763658010]

manning = [ 0.015, 0.02, 0.025]

area = [ 1000, 1000, 1000]

width = [200, 250, 300] meter => Hydraulic radios = [5 , 4, 3.333] meterz

concentration = [0.01, 0.02, 0.03] vol/vol

delta\_b = 0.05\* depth

Kinematic viscosity = 1.0d-6

gravity = 9.80

Specific gravity of particle (~2.65)

shear velocity= [0.017955 0.049694 0.064033]

R= 2.65-1=1.65

explicit Reynolds particle number= [ 127.1613149, 5.619789253]

rouse number: [21.05143736, 7.606120614, 5.902871297 values not work for this routine

0.146387185, 0.052891333, 0.041047302]

e\_s = [5.580488911721425E-6, 9.035725525477729E-4, 3.185200857645513E-3

0.296992553214188, 0.299981295166937, 0.299994734085255]

delta\_b = 0.02

I\_1 =[0.517074438638775 , 0.777300596152034 , 0.819974905226122 values not work for this routine

0.517074438638775, 0.777300596152034, 0.819974905226122]